Bang&Olufsen

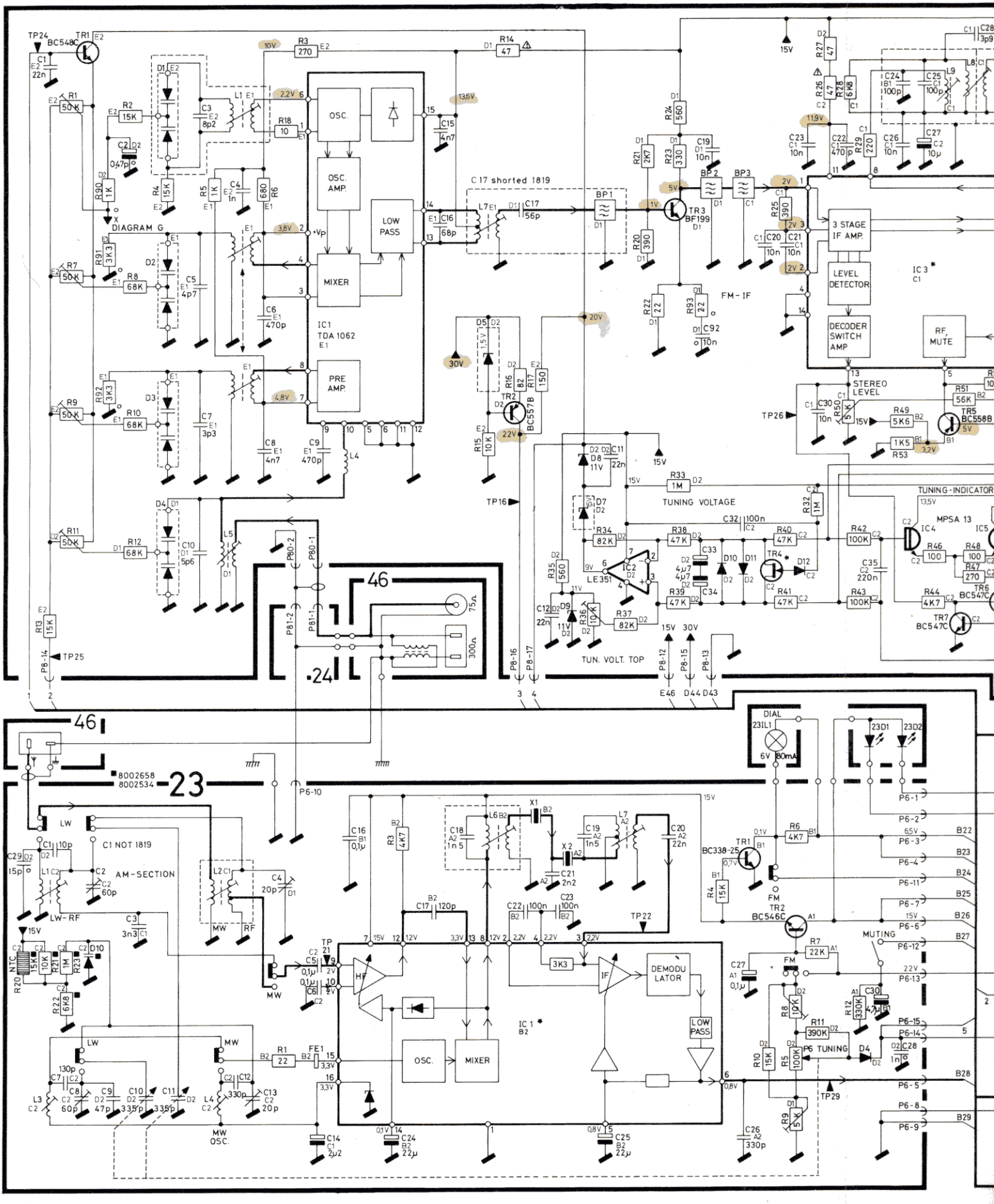
BEOCENTER 7007
TYPE 1821

TERMINAL
TYPE 2043

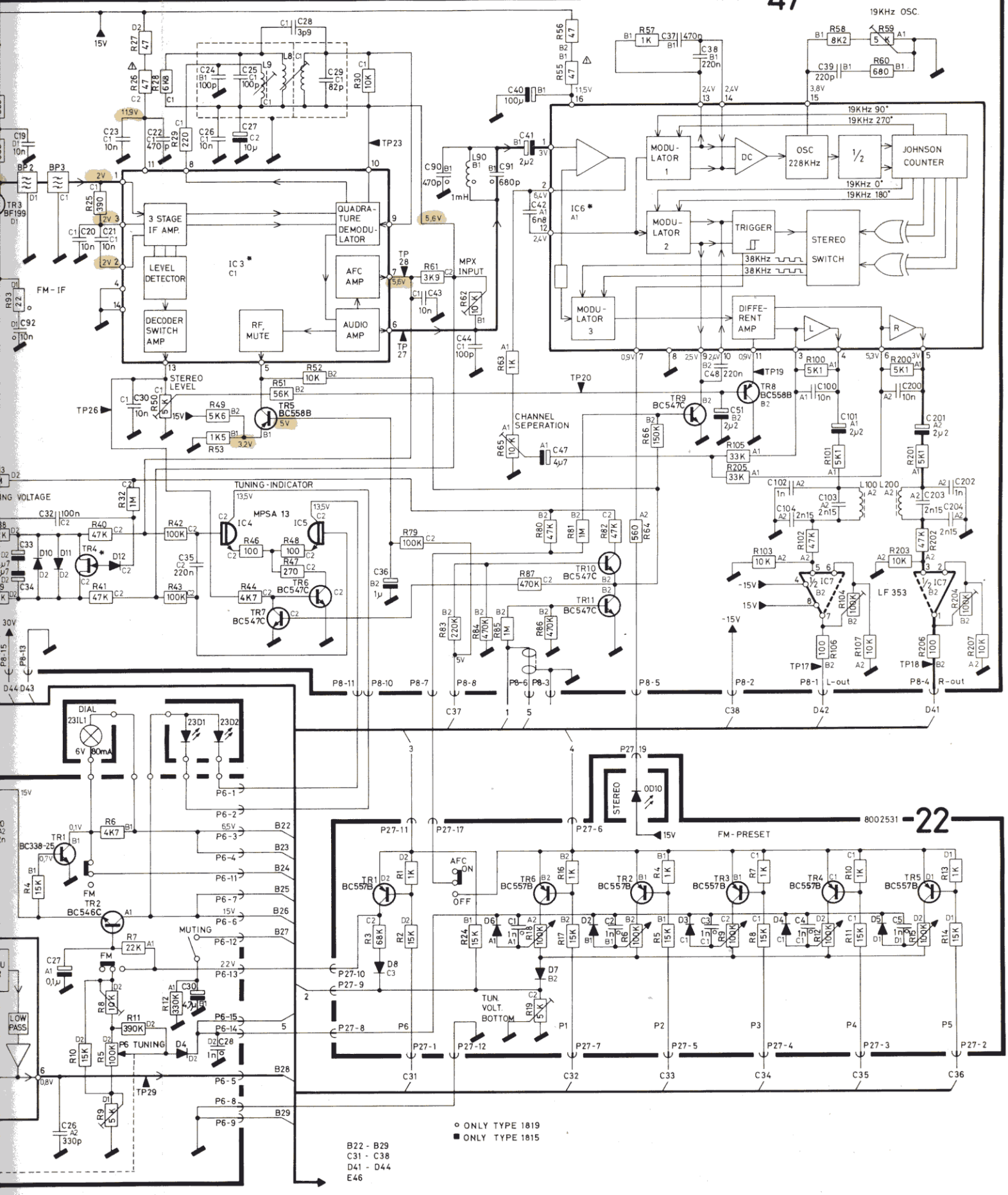
INDKLÆBES I SERVICEANVISNING BEOCENTER 7700, TYPE 1811 – 3538548/
TO PASTE IN SERVICE MANUAL BEOCENTER 7700, TYPE 1811 – 3538548

1-1

DIAGRAM A


TP24
BC548C
TR1
R1 50K
R2 15K
C1 22n
C2 47p
C3 8p2
L1
R3 270
R14 47
R18 10
OSC.
OSC. AMP.
LOW PASS
MIXER
PRE AMP.
IC1 TDA 1062
+Vp
C15 4n7
C16 68p
C17 56p
C17 shorted 1819
BP1
BP2
BP3
TR3 BF199
FM-IF
3 STAGE IF AMP.
LEVEL DETECTOR
DECODER SWITCH AMP
IC 3 *
RF MUTE
STEREO LEVEL
TP26
TR5 BC558B
R49 5K6
R51 56K
R53 1K5
TUNING VOLTAGE
TUNING-INDICATOR
MPSA 13
IC4
IC5
TR6 BC547C
TR7 BC547C
TR2 BC557B
R15 10K
R16 82
R17 150
D5
D7 5V
D8 11V
C11 22n
R33 1M
R32 1M
R34 82K
R35 560
R36 10K
R37 82K
R38 47K
R39 47K
R40 47K
R41 47K
R42 100K
R43 100K
C32 100n
C33 4µ7
C34 4µ7
C35 220n
IC2 LE351
TR4 *
D9 11V
C12 22n
R44 4K7
R46 100
R47 270
R48 100
TP16
TUN. VOLT. TOP
P8-16
P8-17
P8-12
P8-15
P8-13
E46 D44 D43
DIAGRAM G
P80-2
P80-1
P81-2
P81-1
P8-14
TP25
75Ω
300Ω
46
.24
8002658
8002534
-23
P6-10
DIAL
23IL1
6V 80mA
23D1
23D2
LW
C1 NOT 1819
AM-SECTION
LW-RF
MW
RF
C1 10p
C2 60p
C3 3n3
C4 20p
C29 15p
L2
TP22
C16 0,1µ
R3 4K7
C18 1n5
L6
X1
X2
C19 1n5
L7
C20 22n
C21 2n2
C17 120p
C22 100n
C23 100n
TR1 BC338-25
TR2 BC546C
R6 4K7
R4 15K
FM
MUTING
R7 22K
C27 0,1µ
R8 10K
R11 390K
R12 330K
C30 4µ7
P6 TUNING
R10 15K
R5 100K
D4
C28
TP29
C26 330p
R9 5K
P6-1
P6-2
P6-3
P6-4
P6-11
P6-7
P6-6
P6-12
P6-13
P6-15
P6-14
P6-5
P6-8
P6-9
B22
B23
B24
B25
B26
B27
B28
B29
IC 1 *
HF
IF
DEMODULATOR
LOW PASS
OSC.
MIXER
3K3
R1 22
FE1
C5 0,1µ
C6 0,1µ
C14 2µ2
C24 22µ
C25 22µ
L3
L4
C7 130p
C8 60p
C9 47p
C10 33p
C11 33p
C12 330p
C13 20p
MW OSC.
NTC
R20 15K
R21 10K
R22 6K8
R23 1M
D10

8002613
8002519 -47



8002531 -22

○ ONLY TYPE 1819
■ ONLY TYPE 1815

B22 - B29
C31 - C38
D41 - D44
E46

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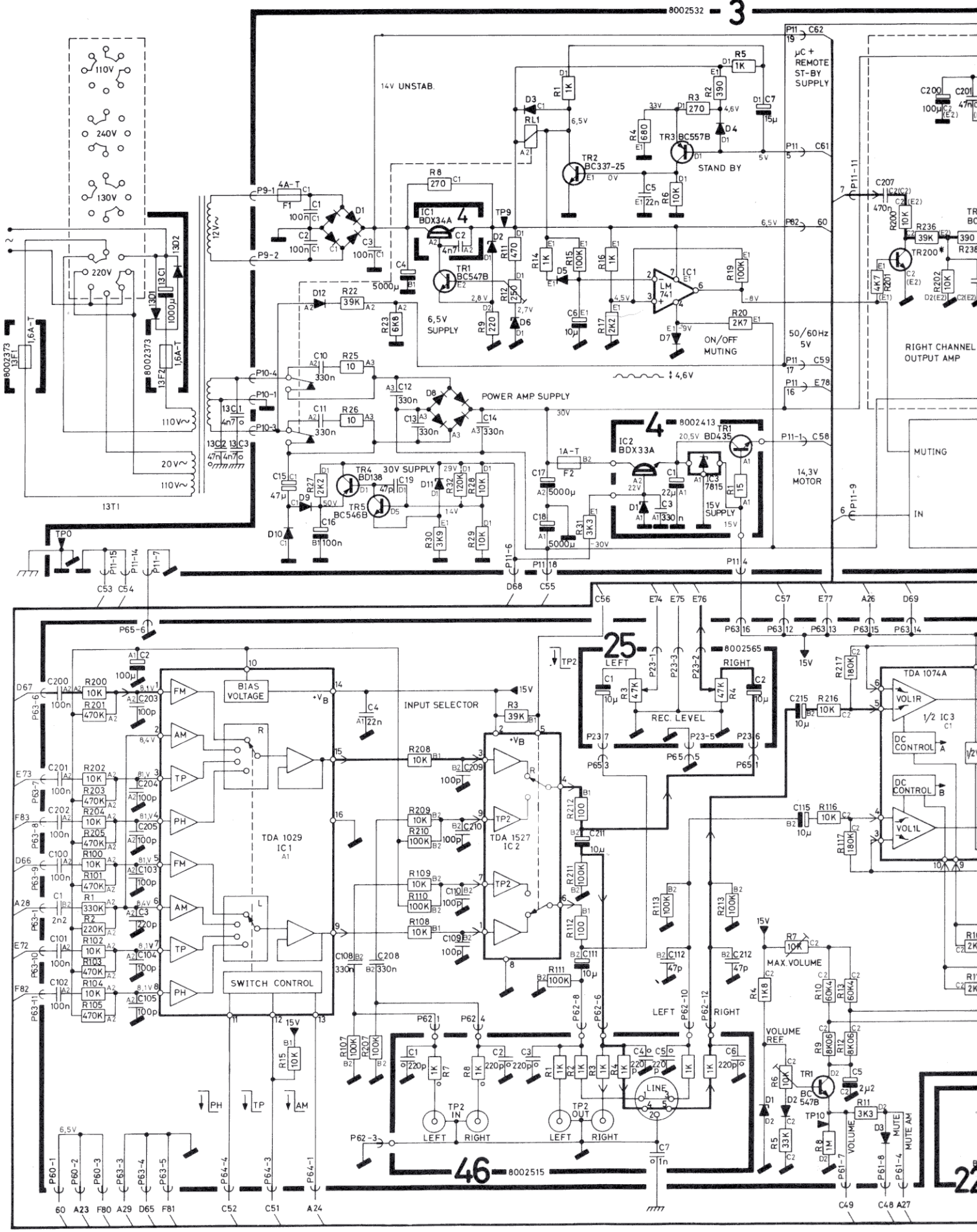
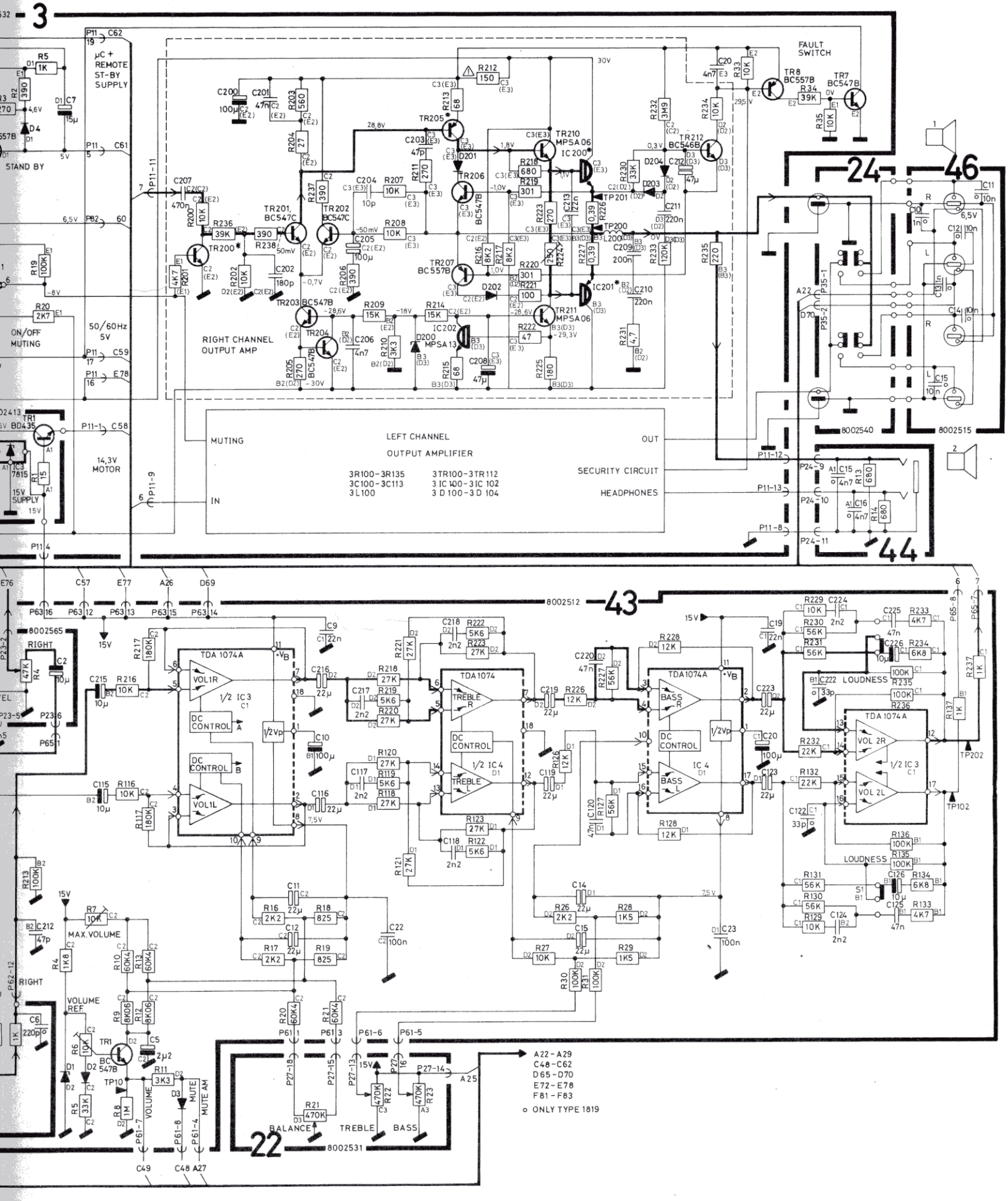
DIAGRAM B




3
μC + REMOTE ST-BY SUPPLY
STAND BY
ON/OFF MUTING
50/60Hz 5V
14,3V MOTOR
15V SUPPLY
RIGHT CHANNEL OUTPUT AMP
TR201 BC547C
TR202 BC547C
TR203 BC547B
TR204
TR205
TR206
TR207 BC557B
TR210 MPSA06 IC200
TR211 MPSA06
TR212 BC546B
TR8 BC557B
TR7 BC547B
IC201
IC202
D200 MPSA13
FAULT SWITCH
MUTING
IN
LEFT CHANNEL OUTPUT AMPLIFIER
3R100-3R135
3C100-3C113
3L100
3TR100-3TR112
3 IC 100-3IC 102
3 D 100-3D 104
OUT
SECURITY CIRCUIT
HEADPHONES
24
46
44
8002540
8002515
43
8002512
TDA 1074A
VOL 1R
VOL 1L
VOL 2R
VOL 2L
TREBLE R
TREBLE L
BASS R
BASS L
DC CONTROL A
DC CONTROL B
1/2 IC 3
1/2 IC 4
LOUDNESS
MAX. VOLUME
VOLUME REF
RIGHT
BALANCE
TREBLE
BASS
VOLUME
MUTE
MUTE AM
22
8002531
A22 - A29
C48 - C62
D65 - D70
E72 - E78
F81 - F83
o ONLY TYPE 1819

1-3

DIAGRAM C

PIN ASSIGNMENT 41DP1		PIN ASSIGNMENT 41DP2	
1	COMMON CATHODE (DOTS)	1	COMMON ANODE DIGIT T
2	COLON LOWER ANODE	2	SEG A CATHODE "
3	COLON UPPER ANODE	3	SEG B CATHODE "
4	NO CONNECTION	4	SEG C CATHODE "
5	DIGIT 4 ANODE	5	COMMON ANODE DIGIT P
6	DIGIT 3 ANODE	6	SEG E CATHODE "
7	DIGIT 2 ANODE	7	SEG F CATHODE "
8	DIGIT 1 ANODE	8	SEG A CATHODE "
9	SEG C CATHODE	9	SEG B CATHODE "
10	SEG G "	10	SEG B CATHODE "
11	SEG D "	11	SEG A CATHODE DIGIT 5
12	SEG E "	12	SEG F CATHODE "
13	SEG F "	13	SEG E CATHODE "
14	SEG A "	14	COMMON ANODE "
15	SEG B "	15	SEG D CATHODE "
		16	SEG C CATHODE "
		17	SEG G CATHODE "
		18	SEG B CATHODE "

A31 - A38
B48 - B62
D85 - D90
E92 - E106
F108 - F111

■ Type 1821 44C1 2200 p

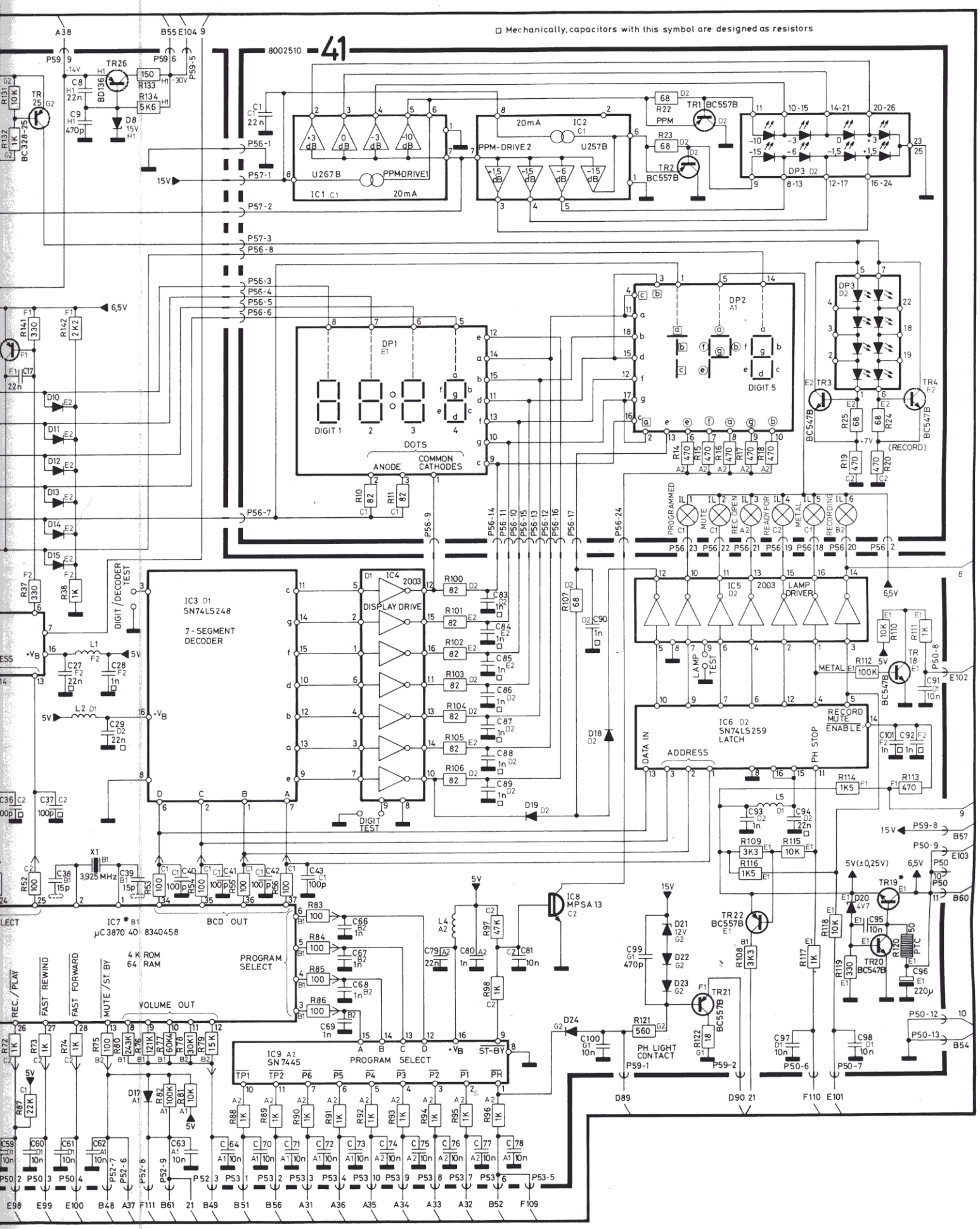

□ Mechanically, capacitors with this symbol are designed as resistors
8002510 -41
IC3 D1 SN74LS248 7-SEGMENT DECODER
IC4 2003 DISPLAY DRIVE
IC5 2003 LAMP DRIVER
IC6 D2 SN74LS259 LATCH
IC7 * B1 μC 3870 40 8340458
IC8 MPSA 13
IC9 A2 SN7445 PROGRAM SELECT
DP1 E1
DP2 A1
DP3 D2
DIGIT 1 2 3 4
DIGIT 5
DOTS
ANODE
COMMON CATHODES
DIGIT / DECODER TEST
DIGIT TEST
LAMP TEST
PROGRAMMED
MUTE
REC OPEN
READY FOR
METAL
RECORDING
DATA IN
ADDRESS
PH STOP
RECORD MUTE ENABLE
PROGRAM SELECT
BCD OUT
4 K ROM
64 RAM
VOLUME OUT
REC. / PLAY
FAST REWIND
FAST FORWARD
MUTE / ST. BY
PH LIGHT CONTACT
PPM-DRIVE 2
PPM-DRIVE1
U267B
U257B
20mA
IC1 C1
IC2 C1
PPM
(RECORD)
3,925 MHz
15V
6,5V
5V
-14V
-30V
-7V

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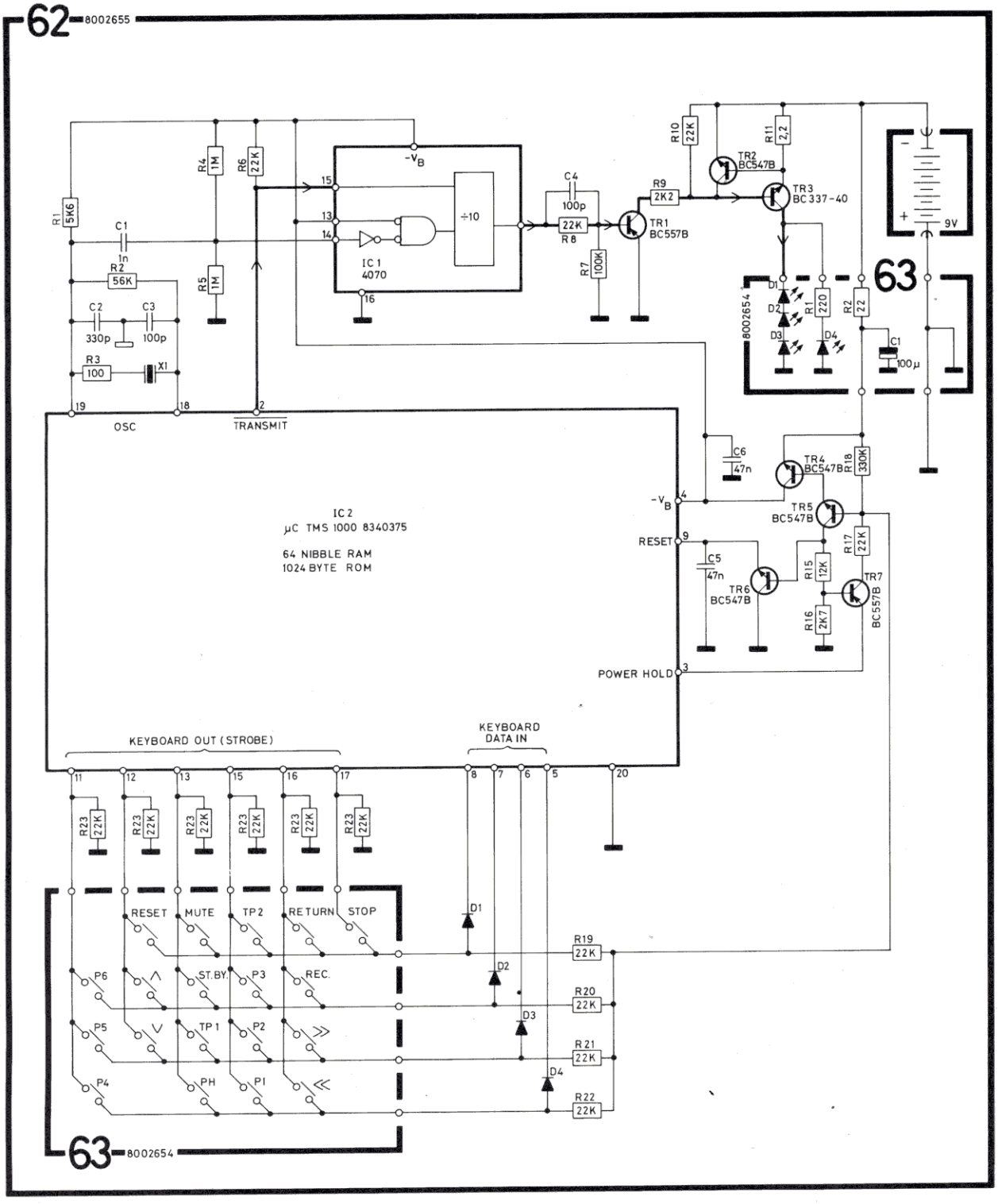
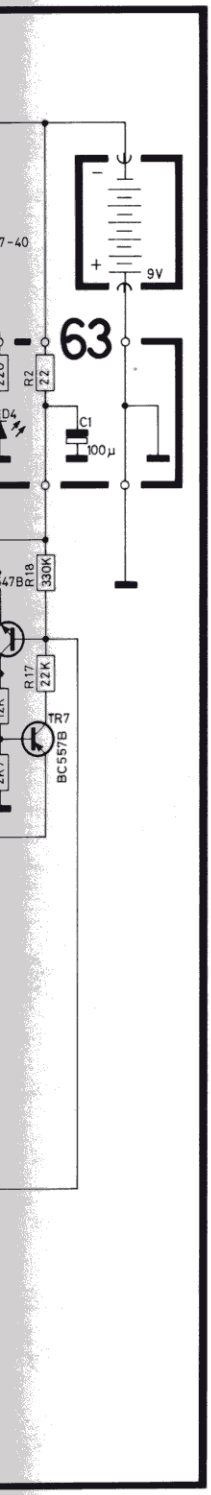
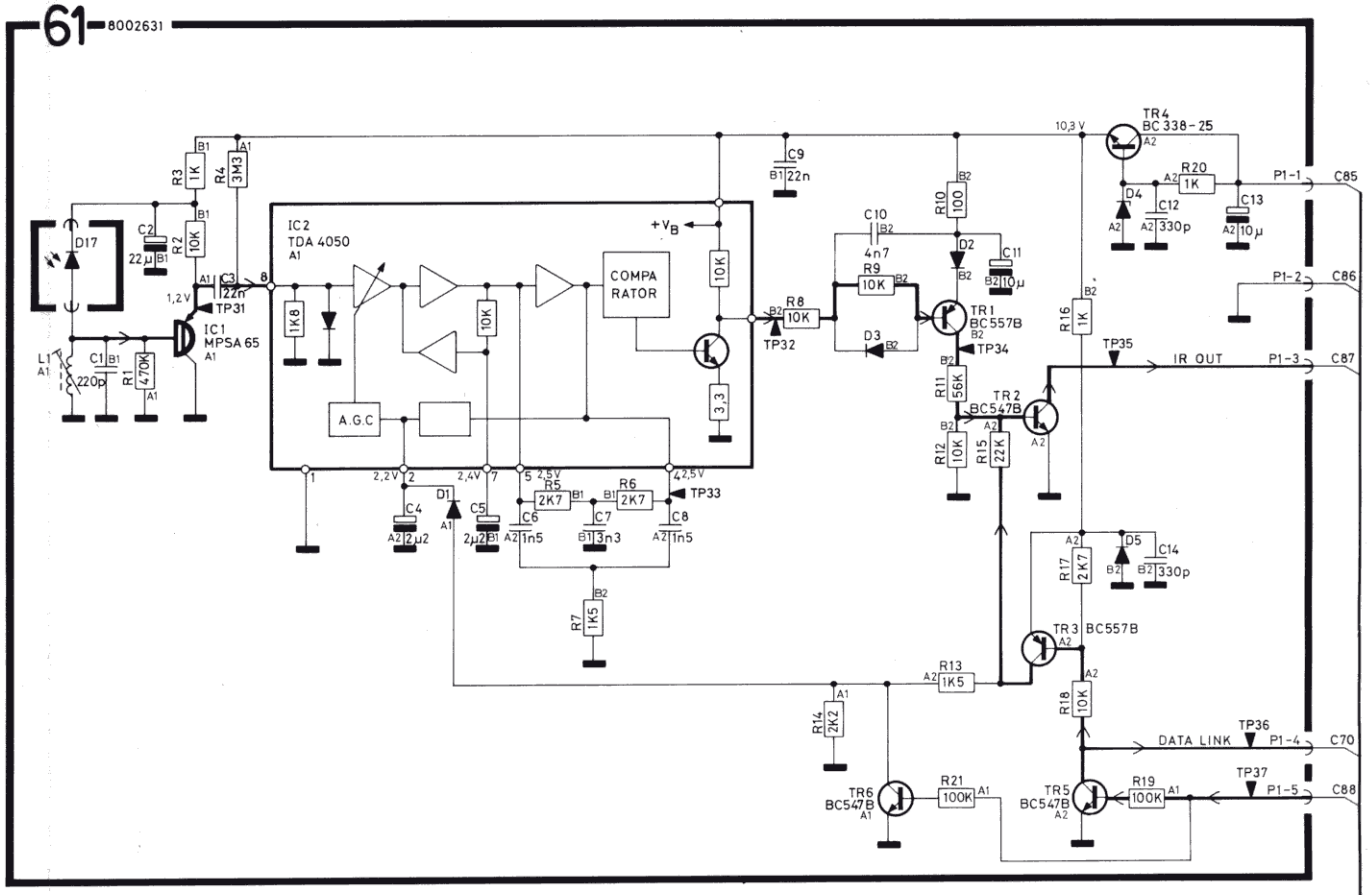
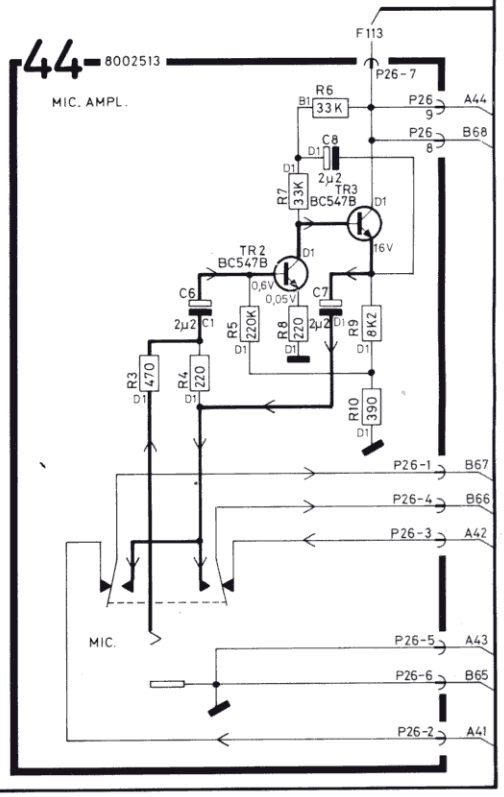
DIAGRAM D



N.B. Module 62 and 63 has a negative supply voltage

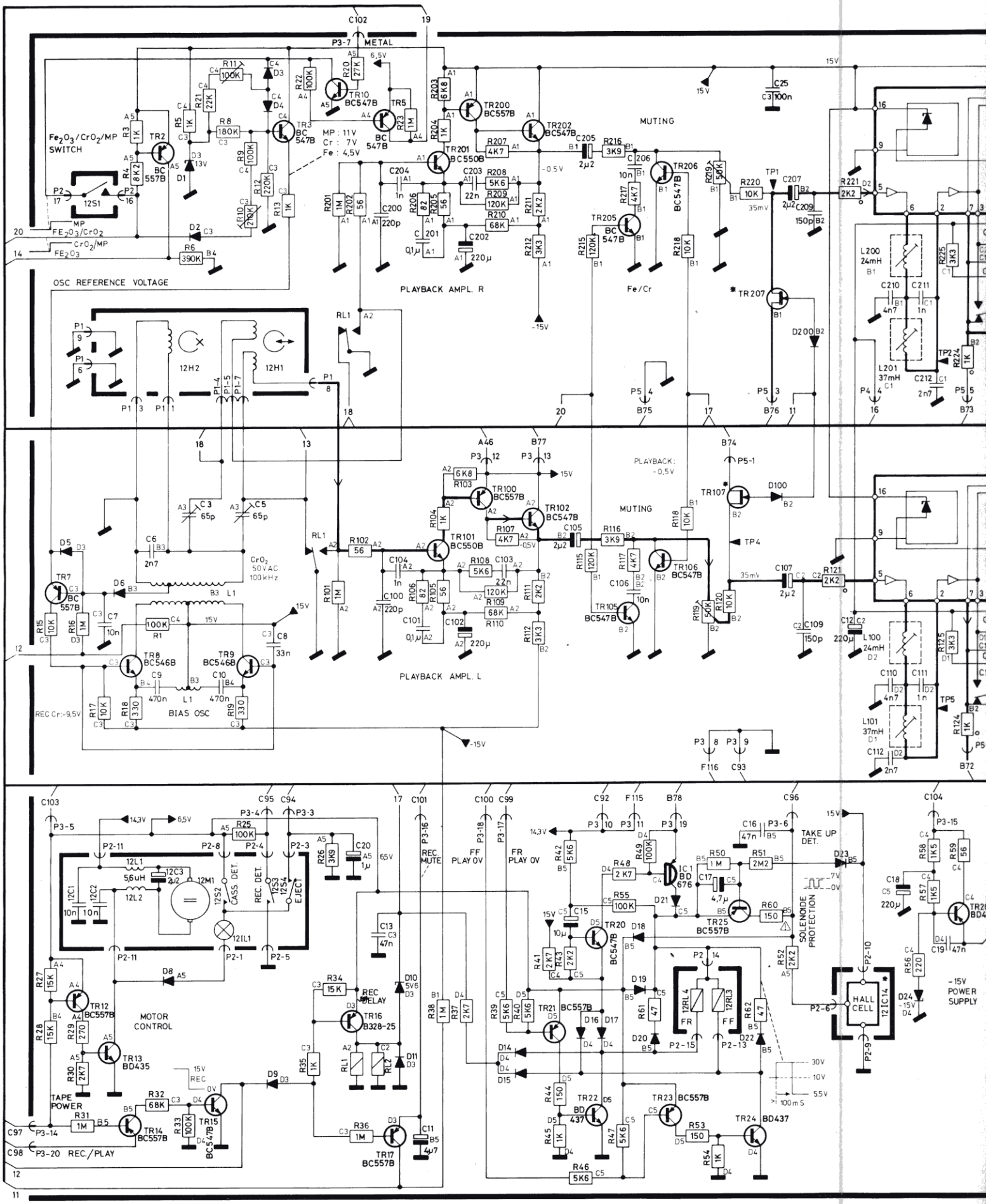

9V
63
C1
100µ
R2
22
D4
R18
330K
R17
22K
TR7
BC557B


61
8002631
IC2
TDA 4050
A1
COMPA
RATOR
A.G.C
+VB
IC1
MPSA 65
TP31
TP32
TP33
TP34
TP35
TP36
TP37
IR OUT
DATA LINK
TR1
BC557B
TR2
BC547B
TR3
BC557B
TR4
BC 338-25
TR5
BC547B
TR6
BC547B
TR7
BC557B
D17
D1
D2
D3
D4
D5
L1
C1
C2
C3
C4
C5
C6
C7
C8
C9
C10
C11
C12
C13
C14
R1
R2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
R13
R14
R15
R16
R17
R18
R19
R20
R21
P1-1
P1-2
P1-3
P1-4
P1-5
C85
C86
C87
C70
C88
10,3 V
1,2 V
2,2V
2,4V
2,5V
4,2,5V

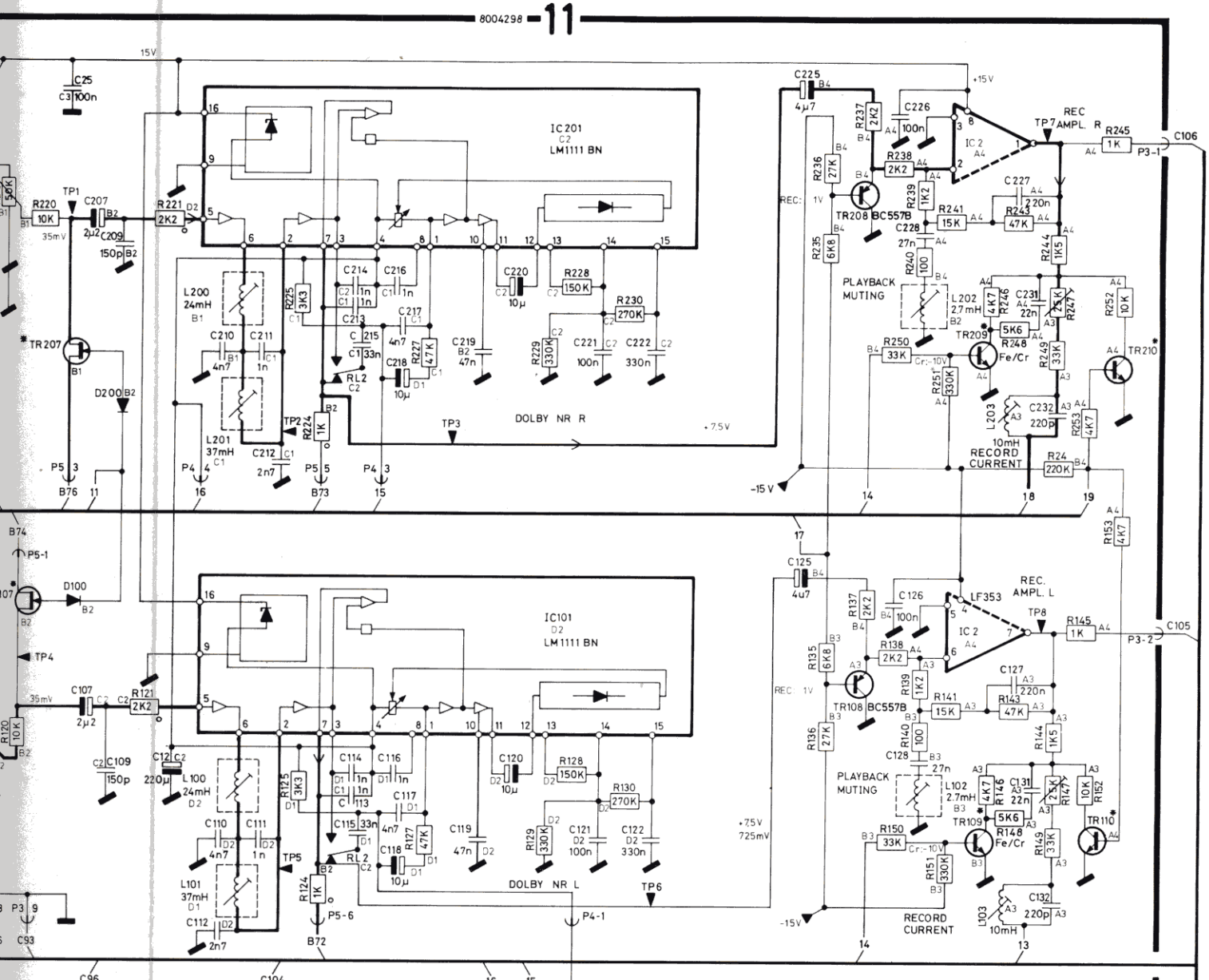

44
8002513
MIC. AMPL.
MIC.
F113
P26-7
P26-1
P26-2
P26-3
P26-4
P26-5
P26-6
A44
B68
B67
B66
A42
A43
B65
A41
TR2
BC547B
TR3
BC547B
16V
0,6V
0,05V

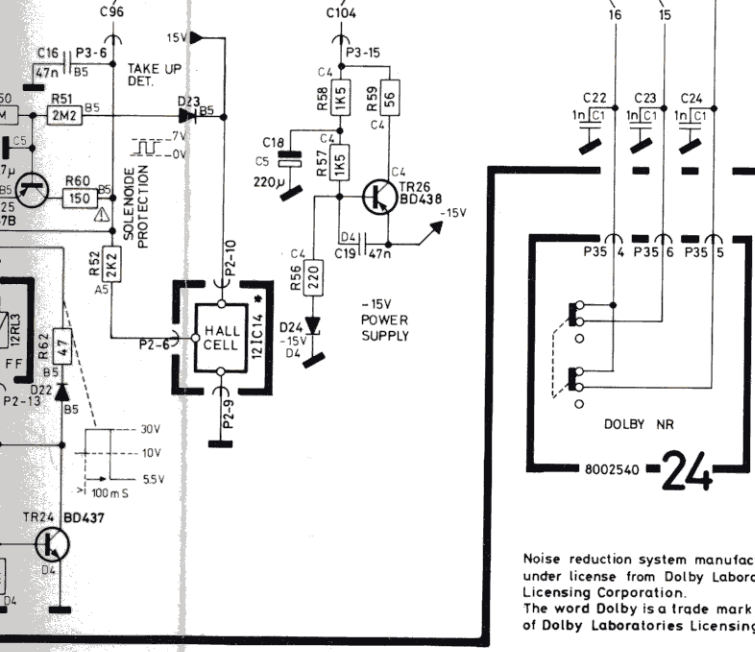
1-5

DIAGRAM E


METAL
MUTING
PLAYBACK AMPL. R
PLAYBACK AMPL. L
OSC REFERENCE VOLTAGE
Fe/Cr
MOTOR CONTROL
BIAS OSC
HALL CELL
SOLENOID PROTECTION
TAKE UP DET.
-15V POWER SUPPLY
TAPE POWER
REC DELAY
FF PLAY 0V
FR PLAY 0V
REC. MUTE
PLAYBACK: -0,5V
Fe2O3/CrO2/MP SWITCH
MP : 11V
Cr : 7V
Fe : 4,5V
CrO2 50VAC 100kHz
REC Cr:-9,5V
TR200 BC557B
TR201 BC550B
TR202 BC547B
TR206 BC547B
TR205 BC 547B
TR207
TR100 BC557B
TR101 BC550B
TR102 BC547B
TR106 BC547B
TR105 BC547B
TR107
TR2 BC 557B
TR3 BC 547B
TR5 BC 547B
TR10 BC547B
TR7 BC 557B
TR8 BC546B
TR9 BC546B
TR12 BC557B
TR13 BD435
TR14 BC557B
TR15 BC547B
TR16 B328-25
TR17 BC557B
TR20 BC547B
TR21 BC557B
TR22 BD 437
TR23 BC557B
TR24 BD437
TR25 BC557B
IC1 BD 676
12S1
12H2
12H1
RL1
12L1
12L2
12M1
12IL1
12RL4
12RL3
12IC14
L200 24mH
L201 37mH
L100 24mH
L101 37mH
D200
TP1
TP2
TP4
TP5
F116
C93

8004298 -11





Switches:

12S1	$ON_2Fe\ O_3$	OFF	CrO_2 - MP
12S2	ON with cass.	OFF	without cass.
12S3	ON rec.lock	OFF	rec.
12S4	ON play	OFF	press eject

o ONLY TYPE 1819

FUNCTION TABLE TAPE DECK					
FUNCTION	PLUG AND PINS				
	P3-18	P3-17	P3-14	P3-20	P3-16
≫	0	1	0		
≪	1	0	0		
>	0	0	0	0	
REC Ⓥ	1	1	0	1	
REC	0	0	0	1	1
STOP	1	1	1		
REC WAIT	0	0	0	1	0

A46
B72 - B78
C92 - C106
F115 - F116

Noise reduction system manufactured under license from Dolby Laboratories. Licensing Corporation.
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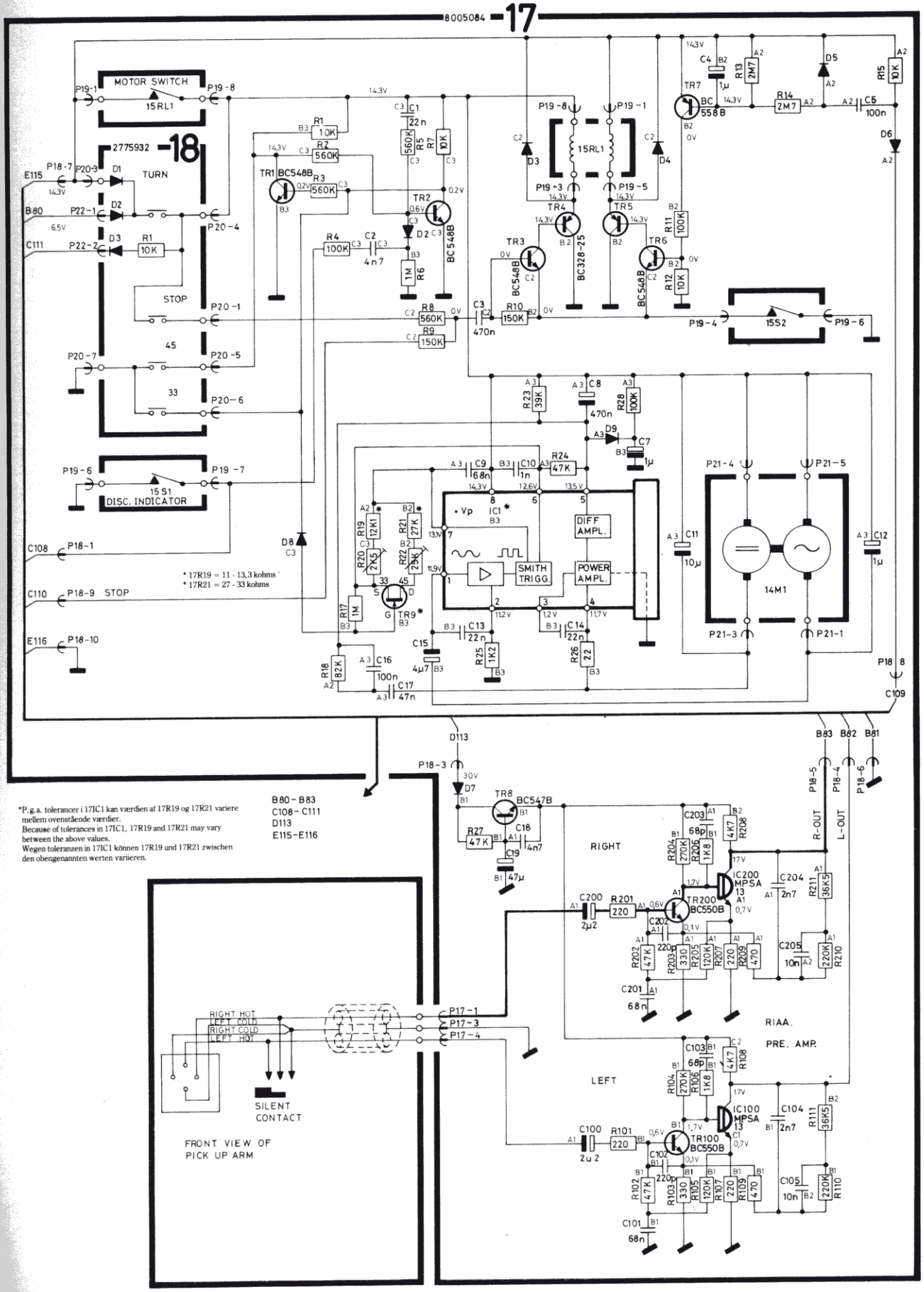
DIAGRAM F



*P.g.a. tolerancer i 17IC1 kan værdien af 17R19 og 17R21 variere mellem ovenstående værdier.
Because of tolerances in 17IC1, 17R19 and 17R21 may vary between the above values.
Wegen toleranzen in 17IC1 können 17R19 und 17R21 zwischen den obengenannten werten variieren.

Diagr
(Base

Diagram for Beocenter Terminal (Based on IC – SN 76831)